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Page : 2

On a new page after the claims, please add the below paragraph starting on line 1:

**METHOD AND DEVICE FOR IMAGE PROCESSING AND LEARNING WITH
NEURONAL CULTURES**

ABSTRACT OF THE INVENTION

-It is disclosed a device for image processing and learning comprising at least a "multi electrode array" (MEA), over which an homogeneous culture of interconnected neurons, so that forming a cell network, is grown on, wherein said MEA is able to stimulate and record the electric activity of said neurons. Methods for image processing and learning utilizing the device are disclosed too. -